

James L. O'Conner, Ph.D.  
Publications As of February, 1993  
Page 1 of 6

MANUSCRIPTS IN REFERRED JOURNALS . . . . .

- 1) Edwards DP, O'Conner JL, Bransome ED and Braselton WE. Human placental 3B - hydroxysteroid dehydrogenase:  $\Delta^5$ -isomerase: demonstration of an intermediate in the conversion of 3B-hydroxypregn-5-en-20-one to pregn-4-ene-3,20 dione. *Journal of Biological Chemistry* 251: 1632-1638, 1976.
- 2) O'Conner JL, Edwards DP and Bransome ED. Localizing steroid dehydrogenase activity on acrylamide gels: the perils of histochemistry. *Analytical Biochemistry* 78: 205-212, 1977.
- 3) Edwards DP, Bransome ED, O'Conner JL and Braselton WE. Inhibition of human placental progesterone synthesis by estranes: a novel relationship of structure to activity. *Journal of Steroid Biochemistry* 8: 1011-1015, 1977.
- 4) Bransome, ED and O'Conner JL. Some Problems in Sample Preparation for Liquid Scintillation Counting: in Liquid Scintillation Counting, Cook MA, Johnson P (eds), Heyden, London; 15: 3-16, 1978.
- 5) O'Conner JL, Allen MB and Mahesh VB. Evaluation of in vitro incubation systems for the study of gonadotropin release. *Endocrine Research Communications* 6: 15-36, 1979.
- 6) O'Conner JL and Bransome ED. Difficulties in Counting Emulsions of  $^3\text{H}$  and  $^{14}\text{C}$  Labelled Biomolecules: in Proceedings of the International Liquid Scintillation Conference: Recent Applications and Developments, Peng CT, Horrocks T and Elpen EL (eds), Academic Press, NY; pgs 245-258, 1979.
- 7) O'Conner JL, Allen MB and Mahesh VB. Castration effects on the response of rat pituitary cells to LHRH: retention in dispersed cell culture. *Endocrinology* 106: 1706-1714, 1980.
- 8) O'Conner JL. Direct Pituitary Effects of Neonatal Androgenization on the LHRH Response of Dispersed Pituitary Cell Cultures: in Functional Correlates of Hormone Receptors in Reproduction, Mahesh VB, Muldoon TG, Saxena BB and Sadler WA (eds), Elsevier/North-Holland, NY; pgs 503-505, 1981.
- 9) Mahesh VB, O'Conner JL and Allen MB. In Vivo Models for the Study of Pituitary Gonadal Relationships: in Functional Correlates of Hormone Receptors in Reproduction, Mahesh VB, Muldoon TG, Saxena BB and Sadler WA (eds), Elsevier/ North-Holland, NY; pgs 45-61, 1981.
- 10) O'Conner JL, Wolfe RR, Allen MB and Mahesh VB. Effect of neonatal androgenization on the LHRH response of dispersed pituitary cell cultures. *Archives of Andrology* 8: 29-35, 1982.
- 11) O'Conner JL and Lapp CA. LHRH of fixed pulse frequency and duration: a simplified system for studying the effect of varying pulse concentration on LH release from Cytodex I attached anterior pituitary cells. *Journal of Pharmacological Methods*. 11: 143-153, 1984.
- 12) O'Conner JL, Lapp CA and Clary AR. LHRH inactivation by lyophilized sera: assessment by reduced immunoreactivity and biological activity in pituitary cell cultures. *FEBS Letters* 176: 101-104, 1984.

- 13) Lapp CA and O'Conner JL. Peptidase activity in the hypothalamus of the rat: utilization of leucine-p-nitroanilide to monitor the activity degrading LHRH. *Biology of Reproduction* 30: 848-854, 1984.
- 14) O'Conner JL, Lapp CA and Mahesh VB. Peptidase activity in the hypothalamus of the rat: fluctuations and possible regulatory role during the estrous cycle. *Biology of Reproduction* 30: 855-862, 1984.
- 15) O'Conner JL and Lapp CA. Enzymatic tracer damage during the LHRH RIA: analytical and immunological assessment. *Life Sciences* 37: 1155-1165, 1985.
- 16) Rojas FJ, O'Conner JL and Asch RH. The antiprogestrone steroid RU-486 does not impair gonadotropin stimulated luteal adenylyl cyclase activity or gonadotropin release by pituitary cells. *Journal of Steroid Biochemistry* 23: 1053-1058, 1985.
- 17) Lapp CA and O'Conner JL. Hypothalamic and pituitary enzymatic degradation of luteinizing hormone releasing hormone (LHRH) during the four day estrous cycle of the rat: assessment by high performance liquid chromatography. *Neuroendocrinology* 43: 230-238, 1986.
- 18) Mahesh VB, Murphy LL and O'Conner JL. Selective Modulation of FSH and LH Secretion by Steroids in Regulation of Ovarian and Testicular Function, Mahesh VB, Dhindsa DS, Anderson E and Kalra SP (eds), Plenum Publishing Corp., pgs 131-152, 1987.
- 19) O'Conner JL, Clary AR and Kellom TA. Superfused pituitary cell cultures: effects of culture conditions on apparent responsiveness to LHRH stimulation administered as short duration pulses. *Life Sciences* 42: 47-60, 1988.
- 20) O'Conner JL, Clary AR and Kellom TA. Superfused pituitary cell cultures: responsiveness of cells derived from various stages of the estrous cycle to LHRH administered as short duration pulses. *Life Sciences* 42: 61-72, 1988.
- 21) O'Conner JL and Mahesh VB. A possible role for progesterone in the preovulatory gonadotropin surge through modulation of LHRH degrading activity. *Journal of Steroid Biochemistry* 29: 257-263, 1988.
- 22) O'Conner JL and Kellom TA. Ether as an anesthetic for decapitation in the rat: gonadotropin secretion by subsequently established anterior pituitary cell cultures. *Proceedings of the Society for Experimental Biology and Medicine* 190: 320-323, 1989.
- 23) O'Conner JL and Kellom TA. Cycle related LH & FSH response of superfused pituitary cells in a phenol red free medium. *FEBS Letters* 261: 315-318, 1990.
- 24) Kellom TA and O'Conner JL. The induction of divergent gonadotropin secretion by variations in LHRH pulse regimen. *Steroids* 56: 284-290, 1991.
- 25) O'Conner JL, Wade M, Yue Z. Control of buffer pH during agarose gel electrophoresis of glyoxylated RNA. *Biotechniques* 10(3): 300-302, 1991.
- 26) Kellom TA and O'Conner JL. Effect of LHRH pulse characteristics on

James L. O'Conner, Ph.D.  
Publications As of February, 1993  
Page 3 of 6

comparative LH and FSH secretion from superfused anterior pituitary cell cultures. *Biochim Biophys Acta* 1097: 101-109, 1991.

27) Kellom TA and O'Conner JL. Estradiol and progesterone effects on relative LH and FSH release as induced from superfused pituitary cell cultures by defined LHRH pulse regimens. *Jour Ster Biochem Molec Biol*, 39: 501-511, 1991.

28) O'Conner JL and Wade Marlene. Determination of coexisting nuclear transcription rates and cytoplasmic mRNA levels for the gonadotropin subunit genes in the rat anterior pituitary. *Biotechniques* 12(2): 238-243, 1992.

29) Wade Marlene and O'Conner JL. Using a cationic carbocyanine dye to assess RNA integrity and gel loading uniformity in Northern analysis. *BioTechniques*, 12(6): 794-796, 1992.

30) Brann D, O'Conner J, Wade M, Mahesh V. LH and FSH subunit mRNA concentrations during the progesterone induced gonadotropin surge in ovariectomized estrogen primed immature rats. *Molec & Cellular Neurosci* 3: 171-178, 1992.

31) O'Conner J, Wade M. Exposure to Alkaline pH during Electrophoresis of Glyoxalated RNA Results in Altered mRNA Abundance but Not Altered Mobility. Accepted for Publication in the International Journal of Genomic Research.

32) Brann D, O'Conner J, Wade M, Zamorano P, Mahesh V. Detailed examination of the role of progesterone in the regulation of anterior pituitary LH-b, FSH-b & alpha subunit mRNA levels in the female rat. Submitted to *Endocrinology* February, 1993.

33) O'Conner J, Wade M, Brann D, Mahesh V. Effect of Neuropeptide Y (NPY) on the Gonadotropin Secretion Exhibited by Anterior Pituitary Tissue In Vitro. Submitted to *Neuroendocrinology*, February, 1993.

ABSTRACTS PRESENTED AT LOCAL, NATIONAL & INTERNATIONAL MEETINGS: . . .

1) O'Conner JL. Analysis of terminal oxidation enzymes in tissue culture of *Nicotiana* by microelectrophoresis and histochemical methods. *Bulletin of the Association of Southeastern Biologists* 13: 43, 1966.

2) Edwards DP, O'Conner JL and Bransome ED. Inhibition of progesterone synthesis by human corpus luteum and placenta. *Jour. Clin. Invest.* 52: 12a, 1973.

3) Bransome ED, Edwards DP, O'Conner JL and Braselton WE. Inhibition of 3B - hydroxysteroid dehydrogenase: ^5-isomerase (3B-HSD:I) in man:preliminary studies in vitro. 56th Annual Meeting of the Endocrine Society. Atlanta, GA. 1974.

4) Edwards DP, O'Conner JL and Bransome ED. Conversion of pregnenolone to progesterone:non-productive binding of substrate and cofactor to 3B-HSD:isomerase. 57th Annual Meeting of the Endocrine Society. Chicago, IL. 1975.

James L. O'Conner, Ph.D.  
Publications As of February, 1993  
Page 4 of 6

- 5) O'Conner JL. Effect of castration on the LHRH response of dispersed rat pituitary cell cultures. Program of the 61st Annual Meeting of the Endocrine Society. Anaheim, CA. 1979.
- 6) Keel BA, Abney TO and O'Conner JL. Influence of experimental cryptorchidism on the serum levels of LH, FSH, E2 and the estradiol binding capacity in the testis. Program of the 12th Annual Meeting of the Society for the Study of Reproduction. Quebec, Canada. 1979.
- 7) O'Conner JL. Effects of donor age on LHRH response of rat anterior pituitary cell cultures. Program of the 31st Fall Meeting of the American Physiological Society. Toronto, Canada. 1980.
- 8) Mahesh VB and JL O'Conner. In Vivo Models for the Study of Pituitary-Gonadal Relationships. Presented at the Hormone Receptor Workshop Sponsored by the National Institutes of Health at the Medical College of Georgia. Augusta, GA. October, 1980.
- 9) O'Conner JL. Direct Pituitary Effects of Neonatal Androgenization on the LHRH Response of Dispersed Pituitary Cell Cultures. Presented at the Hormone Receptor Workshop Sponsored by the National Institutes of Health at the Medical College of Georgia, Augusta, GA. October, 1980.
- 10) Wolfe RR and O'Conner JL. Evidence for L-leucine-p-nitroanilide degrading enzyme activity in rat pituitary cell cultures. Presented at the 63rd Annual Meeting of the Endocrine Society. Cincinnati, Ohio. 1981.
- 11) O'Conner JL. Molecular weight estimation of L-leucine-p-nitroanilide degrading enzyme activity in the rat hypothalamus. Presented at the 63rd Annual Meeting of the Endocrine Society. Cincinnati, Ohio. 1981.
- 12) O'Conner JL, Wolfe RR and Lapp CA. Gonadotropin release from superfused, microcarrier attached pituitary cells:comparative effects of pulsatile and continuous LHRH. Program of the 32nd Fall Meeting of the American Physiological Society. Cincinnati, Ohio. 1981.
- 13) Lapp CA and O'Conner JL. Variations in hypothalamic, pituitary and serum peptidase activity associated with the rat estrous cycle. Presented at the Research Forum in Endocrinology, Emory University, Atlanta, GA. December, 1982.
- 14) O'Conner JL, Lapp CA and Wolfe RR. LH release from superfused pituitary cells: effect of applying LHRH as a continuous linear gradient. Program of the 64th Annual Meeting of the Endocrine Society. San Francisco, CA. 1982.
- 15) O'Conner JL and Lapp CA. Inactivation of LHRH by lyophilized, reconstituted horse and fetal bovine sera. Presented at the 65th Annual Meeting of the Endocrine Society. San Antonio, Texas. 1983.
- 16) Lapp CA, O'Conner JL and Wolfe RR. Fluctuations in hypothalamic, pituitary and serum peptidase activity during the four day estrous cycle; relationship to blood levels of LHRH, LH, FSH, E2, P4 and hypothalamic LHRH. Program of the 65th Annual Meeting of the Endocrine Society. San Antonio, Texas. 1983.

James L. O'Conner, Ph.D.  
Publications As of February, 1993  
Page 5 of 6

- 17) Lapp CA and O'Conner JL. Peptidase activity in the hypothalamus and pituitary of the rat. Presented at the First Graduate Student Research Day at the Medical College of Georgia, Augusta, GA . November, 1983.
- 18) Lapp CA and O'Conner JL. Investigation of LHRH inactivating activity in the hypothalamus and pituitary by use of the synthetic substrate leucine-p-nitroanilide. Presented at the Spring Meeting of the Southeast Endocrine Group. Gainesville, Florida. March, 1984.
- 19) Clary AR and O'Conner JL. LHRH inactivation by reconstituted horse and fetal bovine sera. Presented at the Second Annual Graduate Student Research Day at the Medical College of Georgia, Augusta, GA. November, 1984.
- 20) Lapp CA and O'Conner JL. Damage to tracer 125I-LHRH during the LHRH radioimmunoassay. Presented at the Second Annual Graduate Student Research Day at the Medical College of Georgia, Augusta, GA. November, 1984.
- 21) O'Conner JL and Lapp CA. Utilization of the synthetic substrate leucine-p-nitroanilide to investigate a possible role of LHRH inactivating activity: validation by HPLC and Sephadex isoelectric focusing. Program of the 7th International Congress of Endocrinology. Quebec, Canada. 1984.
- 22) Rojas FJ, O'Conner JL and Asch RH. Studies on the antireproductive mechanisms of action of RU-486. Program of the anti-progestational compound RU-486 symposium organized by the Rockefeller Foundation. Bellagio, Italy. October, 1984.
- 23) Lapp CA and O'Conner JL. HPLC determination of LHRH degradation by the hypothalamus and pituitary during the four day estrous cycle of the rat. Program of the 67th Meeting of the Endocrine Society. Baltimore, Maryland, 1985.
- 24) Clary AR and O'Conner JL. Maximizing the GnRH responsiveness of microcarrier attached pituitary cells by optimizing culture conditions. Program of the 67th Annual Meeting of the Endocrine Society. Baltimore, Maryland. 1985.
- 25) Rojas FJ, O'Conner JL and Asch RH. Failure of the antiprogestrone steroid RU-486 to impair basal or gonadotropin activation of luteal adenylyl cyclase (AC) and gonadotropin release by anterior pituitary cell cultures. Program of the 32nd Annual Meeting of the Society of Gynecologic Investigation. Tucson, Arizona. March, 1985.
- 26) Clary AR, Kellom TA and O'Conner JL. Superfused pituitary cells: responsiveness exhibited by various estrous stages when stimulated with brief LHRH pulses. Presented at the 37th Fall Meeting of the American Physiological Society. New Orleans, LA. Oct. 1986.
- 27) O'Conner JL and Kellom TA. Might progesterone play a role in proestrous gonadotropin secretion through modulation of LHRH degrading activity? Program of the 70th Annual Meeting of the Endocrine Society. New Orleans, LA. June 1988.
- 28) Kellom TA and O'Conner JL. Does the use of diethyl ether as an anesthetic during decapitation in the rat alter subsequent LH and FSH secretion by

anterior pituitary cell cultures? Presented at the 6th Annual Graduate Student Research Day at the Medical College of Georgia, Augusta, GA, November, 1988.

29) Kellom TA and O'Conner JL. Ether anesthesia prior to decapitation in the rat: effect on gonadotropin secretion by dispersed pituitary cells. FASEB Meeting, New Orleans, March 1989.

30) Kellom TA and O'Conner JL. Regulation of FSH secretion from the proestrous/estrous pituitary by LHRH pulse regimens of varying amplitude and duration. 71st Meeting of the Endocrine Society, Seattle, Washington, June, 1989.

31) Kellom TA and O'Conner JL. Potential role of GnRH pulse amplitude, duration and frequency in regulation of divergent gonadotropin secretion. Presented at the Fall Joint Meeting of the Southeast Endocrine Groups, University of Tennessee at Knoxville, November 1989.

32) Kellom TA and O'Conner JL. Characteristics of GnRH pulsatility:role of pulse amplitude, duration and frequency in regulation of divergent gonadotropin secretion. Presented at the 7th Annual Graduate Student Research Day at the Medical College of Georgia. Augusta, GA, November, 1989.

33) Kellom TA and O'Conner JL. The combined effects of gonadal steroids and altered GnRH pulse patterns on divergent gonadotropin secretion from superfused anterior pituitary cell cultures. Presented at the 72nd Annual Meeting of the Endocrine Society, Atlanta, GA., June 1990.

34) Zhou Y, Wade MF and O'Conner, JL. Prevention of RNA deglyoxylation induced by buffer pH shift during agarose gel electrophoresis. Presented at the 8th Annual Graduate Student Research Day at the Medical College of Georgia. Augusta, GA, November 1990.

35) Brann D, O'Conner J, Wade M, Mahesh V. Pituitary LH-b and FSH-b subunit mRNA levels during the progesterone induced gonadotropin surge in the rat. Presented at the 1992 meeting of the Society for Gynecological Investigation.

36) Brann D, O'Conner J, Wade M, Zamorano P, Mahesh V. Divergent regulation of pituitary LH-b, FSH-b and alpha subunit mRNA by progesterone in intact versus ovariectomized estrogen primed immature rats. Presented at the 1992 meeting of the Society for the Study of Reproduction.

37) O'Conner J, Wade M, Brann D. Pituitary action of NPY in LH and FSH secretion; modulation by gonadal steroids. Submitted for presentation at the July 1993 meeting of the Endocrine Society.

tobref.1  
2/12/93